

# INDUSTRIAL DATA LOGGER

Model No: LOG-DL300

## DATA SHEET



| Item              | Information                           |
|-------------------|---------------------------------------|
| Name              | 8 Channel Leak Detection Monitor      |
| Product Code      | LOG-DL300 - 4A1 - X1 - Y2 - E1 - F101 |
| Base Product      | Controller LOG-DL300                  |
| Document Type     | Data Sheet                            |
| Document Revision | Rev. 1.0                              |



## Overview

The LOG-DL300 combines display, keypad, communication, data logging, and IoT functionality into a single panel-mounted data logger platform. It is intended to simplify monitoring and data logging applications while providing local operation and remote visibility.

## Features, Applications and Technical Specifications

### Feature Highlights

- 7-inch TFT graphical touch screen display
- Real-time monitoring and control
- Integrated alarm and event management
- Configurable input/output architecture
- Industrial RS485 communication with Modbus RTU support
- Ethernet connectivity through LAN/WAN ports
- Built-in Linked IoT cloud connectivity
- Local data logging and USB data export
- Firmware Over-the-Air (FOTA) updates
- Password-protected configuration access
- Industrial panel mount design
- IP65 front protection
- Designed for continuous industrial operation

### Application Areas

- Industrial automation
- Cold storage and refrigeration
- Pharmaceutical facilities
- Food processing plants
- Water and wastewater systems
- Building management systems
- Environmental monitoring
- Agriculture and greenhouses
- Utility monitoring
- Industrial IoT applications

### Technical Specifications

| Parameter              | Value                                                        |
|------------------------|--------------------------------------------------------------|
| Supply Voltage         | 24 VDC                                                       |
| Display                | 7-inch TFT LCD Touch Screen                                  |
| Communication          | 2 x RS485, 2 x Ethernet, GSM(Optional)                       |
| USB                    | USB data export / configuration use                          |
| Wireless Connectivity  | External antenna for supported wireless / cloud connectivity |
| Mounting               | Panel mount                                                  |
| Front Protection       | IP65                                                         |
| Dimensions (W x H x D) | 230 x 150 x 30 mm                                            |
| Panel Cutout           | 217 x 139 mm                                                 |
| Operating Use          | Indoor industrial panel installation                         |

## Product Images and Mechanical Drawings

### Dimension drawing

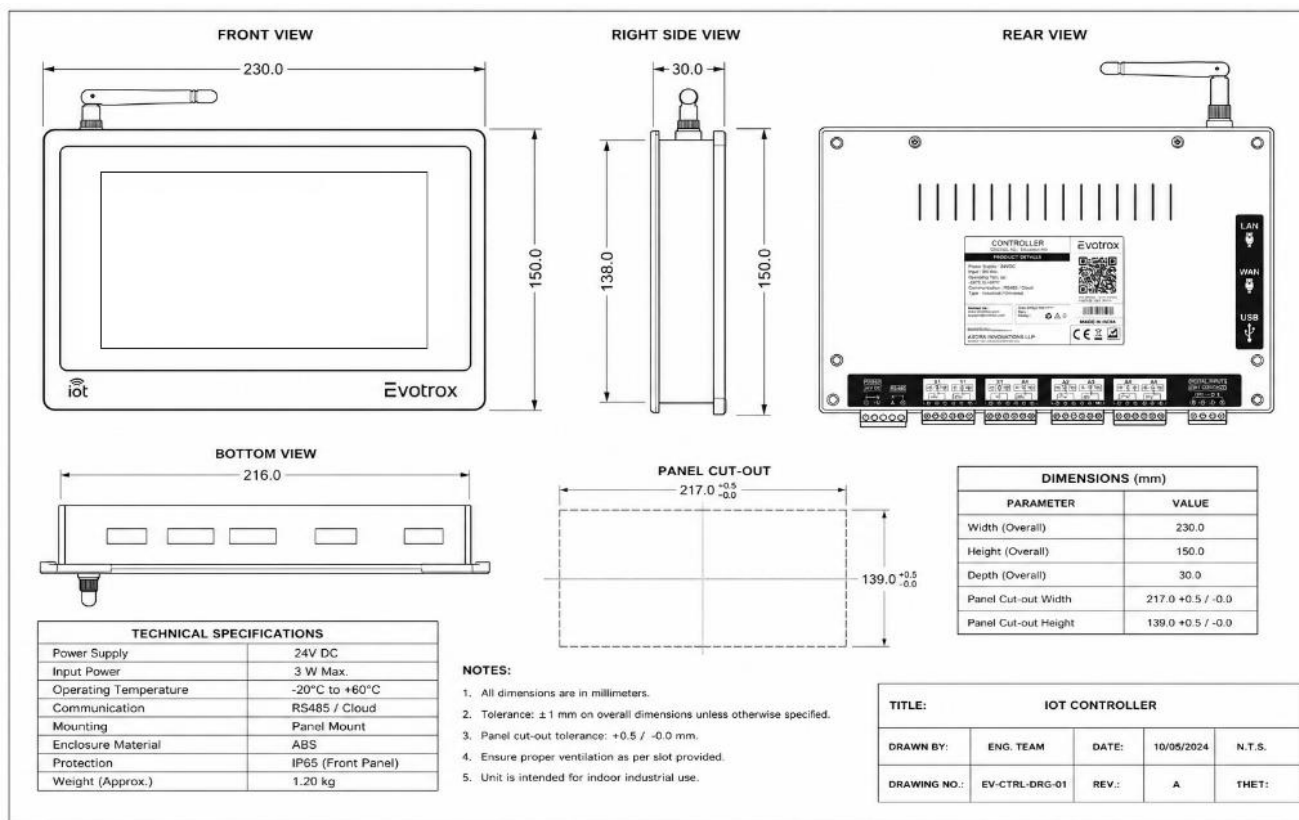


Figure: Dimensional drawing and panel cut-out

## Application Overview

The LOG-DL300 configured as an Ammonia Leak Detection Monitor is designed to monitor ammonia concentration from connected field sensors, generate alarms based on configured set values, operate assigned digital outputs, and communicate monitored data to external systems. This application profile defines the application-specific hardware code, firmware code, I/O structure, communication behaviour, wiring reference, settings, commissioning steps, and troubleshooting guidance.

| Parameter        | Details                                                                                                    |
|------------------|------------------------------------------------------------------------------------------------------------|
| Title            | Ammonia Leak Detection Monitor                                                                             |
| Description      | Application profile for ammonia leak monitoring, alarm generation, output control, and data communication. |
| Hardware Details | LOG-DL300-4A1-X1-Y2-E1                                                                                     |
| Firmware Details | F101                                                                                                       |
| I/O Details      | 2 Ch DI<br>2 Ch DO<br>8 Ch AI                                                                              |
| Version Update   | Initial application profile release                                                                        |

## Application Features

- Supports up to 8 ammonia monitoring channels.
- Configurable high alarm with hysteresis and acknowledgement.
- Controls fans, pumps, valves, hooters, and alarm devices.
- RS485 Modbus RTU and Ethernet Modbus TCP/IP communication support.
- Optional IoT cloud monitoring via Linked IoT platform.



## Ordering Information

Ordering format: LOG DL300 - 4A1 - X1 - Y2 - E1 - F101

| Code Segment | Description                                  |
|--------------|----------------------------------------------|
| LOG-DL300    | Controller platform                          |
| 4A1          | Four AI-IV modules / 8 analog input channels |
| X1           | 2-channel digital input card                 |
| Y2           | 2-channel relay output card                  |
| E1           | IoT card / EdgeLink-100                      |
| F101         | Ammonia leak detection firmware code         |

### Card Variants

| Code | Title                   | Description                                                                                               |
|------|-------------------------|-----------------------------------------------------------------------------------------------------------|
| X1   | DI Card - 2CH           | 2 Ch Opto-Isolated Digital Input                                                                          |
| Y1   | DO Card - R1CH          | 1 Ch Relay Output                                                                                         |
| Y2   | DO Card - R2CH          | 2 Ch Relay Output                                                                                         |
| Y3   | DO Card - T2CH          | 2 Ch Transistor Output                                                                                    |
| A1   | AI Card - IV            | 2 Ch Configurable Active Analog Input:<br>0-1 V, 0-5 V, 0-10 V, 0-20 mA, 4-20 mA                          |
| A2   | AI Card - RMV           | 1 Ch Configurable Passive Analog Input:<br>NTC Thermistor (10K), PT100, PT1000, CU50, T/C (J, K, R, S, T) |
| A3   | AO Card - 2CH           | 2 Ch Analog Output: 0-20 mA, 4-20 mA                                                                      |
| I1   | GSM Card                | GSM / 4G Module for Cellular Network                                                                      |
| E1   | IoT Card (EdgeLink-100) | IoT Card for Cloud Network Connectivity and IoT Application                                               |
| L1   | Lan Card                | Lan card for Internal Network                                                                             |

## Contact Information

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